

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCK  
WA23-02SERIAL NO. 09/1077  
Yet to be assignedLIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Fuglevand et al.

ATTACH TO #3

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7/26/01

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1745

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OK	AA	2,852,554	9/58	England	260	481	
OK	AB	3,498,844	3/70	Sanderson	136	86	
OK	AC	3,507,702	4/70	Sanderson	136	86	
OK	AD	3,528,858	9/70	Hodgdon	136	86	
OK	AE	3,623,913	11/71	Adlhart et al.	136	86	
OK	AF	3,802,534	4/74	Summers et al	340	249	
OK	AG	3,823,358	7/74	Rey	320	3	
OK	AH	3,964,930	6/76	Reiser	136	86	
OK	AI	3,969,145	7/76	Greystad	136	86	
OK	AJ	3,975,913	8/76	Erickson	60	645	
OK	AK	4,024,036	5/77	Nakamura et al	204	129	

## FOREIGN PATENT DOCUMENTS

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## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

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6/11/03

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07/26/01

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET N.  
WA23-020SERIAL NO.  
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(Use several sheets if necessary)APPLICANT  
Fuglevand et al.FILING DATE  
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## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
JK	AA	4,130,693	12/78	Van den Berghe et al.	429	41	
JK	AB	4,142,024	2/79	Van den Berghe et al.	429	41	
JK	AC	4,178,418	12/79	Croset et al.	429	27	
JK	AD	4,185,131	1/80	Goller et al.	427	113	
JK	AE	4,192,906	3/80	Maru	429	13	
JK	AF	4,219,443	8/80	Klinedinst et al.	252	425	
JK	AG	4,276,355	6/81	Kothmann et al.	429	26	
JK	AH	4,287,232	9/81	Goller et al.	427	113	
JK	AI	4,463,065	7/84	Hegedus et al.	429	33	
JK	AJ	4,469,579	9/84	Covitch et al.	204	283	
JK	AK	4,476,198	10/84	Ackerman et al.	429	32	

## FOREIGN PATENT DOCUMENTS

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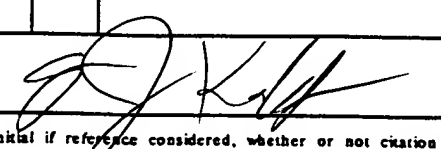
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Fuglevand et al.				
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OK	AA	4,478,917	10/84	Fujita et al.	429	33		
OK	AB	4,500,612	2/85	Fujii et al.	429	26		
OK	AC	4,510,211	4/85	Struthers	429	18		
OK	AD	4,562,124	12/85	Ruka	429	30		
OK	AE	4,598,028	7/86	Rossing et al.	429	30		
OK	AF	4,629,537	12/86	Hsu	204	15		
OK	AG	4,647,359	3/87	Lindstrom	204	294		
OK	AH	4,670,702	6/87	Yamada et al.	320	21		
OK	AI	4,686,158	8/87	Nishi et al.	429	26		
OK	AJ	4,661,411	4/87	Martin et al.	428	421		
OK	AK	4,702,971	10/87	Isenberg	429	31		
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OK	AA	4,724,191	2/88 Kuriakose <i>etal</i>	429	193		
OK	AB	4,728,584	3/88 Isenberg	429	31		
OK	AC	4,749,632	6/88 Flandermeyer <i>etal</i>	429	12		
OK	AD	4,755,376	7/88 Marianowski	429	16		
OK	AE	4,767,518	8/88 Maskalick	204	242		
OK	AF	4,769,297	9/88 Reiser <i>etal</i>	429	17		
OK	AG	4,770,955	9/88 Ruhl	429	33		
OK	AH	4,795,536	1/89 Young <i>et al</i>	204	129		
OK	AI	4,797,185	1/89 Polak <i>et al</i>	204	129		
OK	AJ	4,797,190	1/89 Peck	204	296		
OK	AK	4,804,592	2/89 Vanderborgh	429	33		
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## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OK	AA	4,816,036	3/89	Kotchick	29	623	
OK	AB	4,818,637	4/89	Molter et al.	429	15	
OK	AC	4,818,735	4/89	Fujiki et al.	501	134	
OK	AD	4,824,741	4/89	Kunz	429	26	
OK	AE	4,826,741	5/89	Aldhart et al.	429	19	
OK	AF	4,826,742	5/89	Reiser	429	33	
OK	AG	4,847,172	7/89	Maskalick et al.	429	30	
OK	AH	4,849,253	7/89	Maricle	427	115	
OK	AI	4,851,303	7/89	Madou et al.	429	13	
OK	AJ	4,863,813	9/89	Dyer	429	33	
OK	AK	4,876,115	10/89	Raistrick	427	115	

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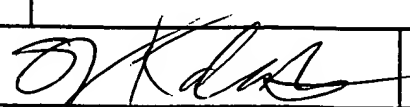
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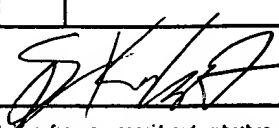
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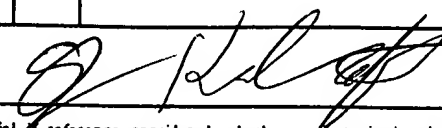
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Fuglevand et al.			
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U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
OK	AA	4,883,497	11/89 Claar et al	29	623		
OK	AB	4,894,355	1/90 Takeuchi et al.	502	101		
OK	AC	4,927,793	5/90 Hori et al.	501	134		
OK	AD	4,943,494	7/90 Riley	429	30		
OK	AE	4,948,680	8/90 Madou et al.	429	13		
OK	AF	4,985,315	1/91 Lemoine	429	33		
OK	AG	4,994,331	2/91 Cohen	429	17		
OK	AH	5,035,962	7/91 Jensen	429	40		
OK	AI	5,035,961	7/91 Jensen Riley	429	30		
OK	AJ	5,037,525	8/91 Badwal	204	421		
OK	AK	5,047,298	9/91 Perry Jr. et al.	429	17		
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*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
OK	AA	5,049,459	9/91 Akagi	429	33		
OK	AB	5,059,497	10/91 Prince et al	429	193		
OK	AC	5,069,987	12/91 Gordon	429	31		
OK	AD	5,084,144	1/92 Reddy et al	205	104		
OK	AE	5,106,706	4/92 Singh et al	429	31		
OK	AF	5,114,803	5/92 Ishihara et al	429	30		
OK	AG	5,122,425	6/92 Yoshida et al.	429	33		
OK	AH	5,130,210	7/92 Iwasaki et al.	429	33		
OK	AI	5,132,193	7/92 Reddy et al.	429	13		
OK	AJ	5,143,801	9/92 Bates	429	33		
OK	AK	5,149,601	9/92 Shiratori et al.	429	30		
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OK	AA	5,154,987	10/92 Hash et al.	429	33		
OK	AB	5,162,167	11/92 Minh et al.	429	30		
OK	AC	5,164,060	11/92 Fisman et al.	204	282		
OK	AD	5,169,731	12/92 Yoshimura et al.	29	30		
OK	AE	5,176,967	1/93 Ishihara et al.	429	31		
OK	AF	5,186,806	2/93 Clark	204	265		
OK	AG	5,187,025	2/93 Kelland et al.	429	33		
OK	AH	5,188,910	2/93 Ishihara et al.	429	31		
OK	AI	5,190,834	3/93 Kendall	429	31		
OK	AJ	5,192,627	3/93 Perry Jr. et al.	429	17		
OK	AK	5,200,278	4/93 Watkins et al.	429	24		
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OK	AA	5,200,279	4/93	Draper et al	429	30		
OK	AB	5,213,911	5/93	Bloom et al.	429	33		
OK	AC	5,217,822	6/93	Yoshida et al.	429	33		
OK	AD	5,219,673	6/93	Kaun	429	32		
OK	AE	5,223,353	6/93	Oshawa et al.	429	192		
OK	AF	5,232,794	8/93	Krumpelt et al.	429	30		
OK	AG	5,234,722	8/93	Ito et al.	427	453		
OK	AH	5,234,777	8/93	Wilson	429	33		
OK	AI	5,242,764	9/93	Dhar	429	30		
OK	AJ	5,244,753	9/93	Taniguchi et al	429	33		
OK	AK	5,246,792	9/93	Watanabe	429	33		
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OK	AB	5,252,410	10/93	Wilkinson et al.	429	33		
OK	AC	5,256,499	10/93	Minh et al.	429	33		
OK	AD	5,262,249	11/93	Beal et al.	429	26		
OK	AE	5,264,299	11/93	Krasij et al.	429	30		
OK	AF	5,266,419	11/93	Yamada	429	30		
OK	AG	5,266,421	11/93	Townsend et al.	429	192		
OK	AH	5,270,131	12/93	Diethelm et al.	429	34		
OK	AI	5,272,017	12/93	Swathirajan et al.	429	33		
OK	AJ	5,273,838	12/93	Draper et al.	429	31		
OK	AK	5,279,906	1/94	Yoshimura et al.	429	30		
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## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OK	AA	5,281,490	1/94	Nishioka et al	429	33	
OK	AB	5,286,579	2/94	Akagi	429	33	
OK	AC	5,290,323	3/94	Okuyama	29	623	
OK	AD	5,290,642	3/94	Minh et al.	429	33	
OK	AE	5,292,599	3/94	Soma et al.	429	30	
OK	AF	5,292,600	3/94	Kaufman	429	39	
OK	AG	5,298,235	3/94	Worrell et al.	429	33	
OK	AH	5,302,269	4/94	Eisman et al.	204	252	
OK	AI	5,306,574	4/94	Singh et al	429	13	
OK	AJ	5,304,430	4/94	Ludwig	429	17	
OK	AK	5,308,712	5/94	Seike et al.	429	30	

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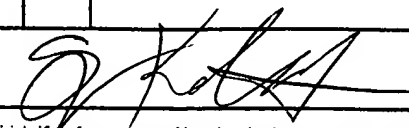
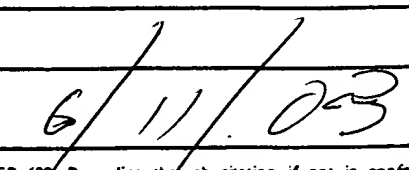
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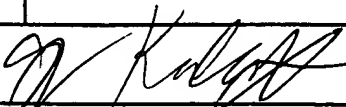
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U.S. PATENT DOCUMENTS								
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<i>OK</i>	AA	5,312,700	5/94	Ishida	429	30		
<i>OK</i>	AB	5,316,869	5/94	Perry Jr. <i>et al.</i>	429	19		
<i>OK</i>	AC	5,316,871	5/94	Swathirajan <i>et al.</i>	429	33		
<i>OK</i>	AD	5,330,859	7/94	McPheeters <i>et al.</i>	429	33		
<i>OK</i>	AE	5,330,860	7/94	Grot <i>et al.</i>	429	42		
<i>OK</i>	AF	5,336,570	8/94	Dodge	429	31		
<i>OK</i>	AG	5,338,622	8/94	Hsu <i>et al.</i>	429	26		
<i>OK</i>	AH	5,342,704	8/94	Vasilow <i>et al.</i>	429	31		
<i>OK</i>	AI	5,342,705	8/94	Minh <i>et al.</i>	429	32		
<i>OK</i>	AJ	5,344,721	9/94	Sonai <i>et al.</i>	429	20		
<i>OK</i>	AK	5,346,780	9/94	Suzuki	429	42		
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OK	AA	5,350,641	9/94	Mogensen et al.	429	30		
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OK	AD	5,356,728	10/94	Balachandran et al.	429	8		
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OK	AF	5,358,620	10/94	Golorin et al.	204	421		
OK	AG	5,358,799	10/94	Gardner	429	26		
OK	AH	5,358,735	10/94	Kawaskai et al.	427	115		
OK	AI	5,364,711	11/94	Yamada et al.	429	15		
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<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								

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OK	AH	5,407,758	4/95	Greiner et al.	429	33		
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OK	AB	5,525,436	6/96 Savinell et al.	429	30		
OK	AC	5,532,072	7/96 Spaeh et al.	429	34		
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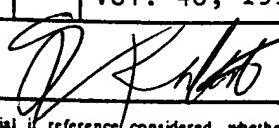
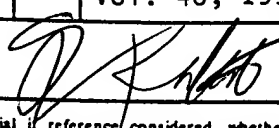
  

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)		
OK	AR	Chul-Hawan et al., Journal of Polymer Science, Vol. 34, pp. 2709-2714, (1996) (MATH unknown)
OK	AS	Tager et al; Polymer Science Vol.33, 1991 pp. 282-287 (MATH unknown)
OK	AT	Wilson et al., Private Paper 1996, 8 pages (MATH unknown)

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 6/11/03
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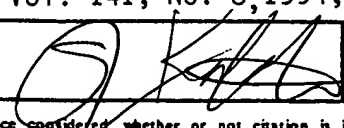
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OK	AR		Lam-Leung et al; Journal of Applied Polymer Science, Vol. 57, 1995, pp.1373-1379 (MONTH unknown)				
OK	AS		Dowling et al; Macromolecules 1991, pp. 4131-4237 (MONTH unknown)				
OK	AT		Theodoropoulouse et al; Journal of Applied Polymer Science, Vol. 46, 1992, pp. 1461-1465 (MONTH unknown)				
EXAMINER		DATE CONSIDERED					
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	AR		Chainey et al; Journal of Polymer Science, 1989, Vol. 27,			
			pp. 3187-3199 (month unknown)			
	AS		Tovbin et al; Russian Journal of Physical Chemistry, Vol. 67,			
			1993, pp. 471-474 (month unknown)			
	AT		Krever et al; Chemical Material 1996, Vol. 8, pp. 610-641			
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OK	AS		Poinsignon et al; Materials Science and Engineering (1989),						
			pp. 31-37 (month unknown)						
OK	AT		Solomin; Polymer Science USSR Vol. 34, 1992, pp. 274-275						
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	AS		Ticianelli et al; Journal of Applied Electro-Chemistry, Vol. 21 (1991), pp. 597-605 (Month unknown)				
	AT		Savodogo et al; Journal of the Electro Chemical Society, Vol. 141, No. 8, 1994, pp. L92-L95 (Aug.)				
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<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

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OK	AR		Staiti et al; Journal of Applied Electrochemistry; Vol 22				
			(1992), pp. 663-667. (MATH unknown)				
OK	AS		Gao et al; Electrochimica Acta; Vol. 37, No. 8, pp. 1327-1332				
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EX	AR		Uchida et al; Journal of the Electrochemical Society; No. 142 (1995), pp. 463-468 <span style="float: right;">(Feb)</span>
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EXAMINER 	DATE CONSIDERED 6/11/03
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	AR		Ticianelli et al; Journal of Electro Chemical Society; Vol. 135, (1988), pp. 2209-2214	(STANTH unknown)
	AS		Prater et al; Journal of Power Sources; Vol. 37 (1992), pp. 181-188	(STANTH unknown)
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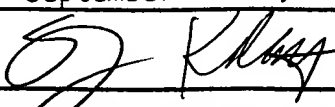
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OK	AS		Ticianelli et al; Journal of Electroanalytical Chemistry; Vol. 251 (1988), pp. 275-295	(MONTH UNKNOWN)
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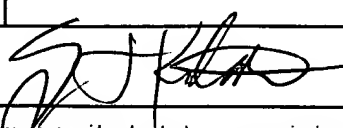
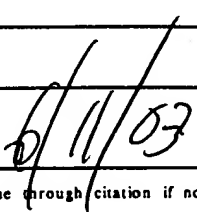
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OK	AS		Fuel Cell Systems; American Chemical Society Symposia, April 6-7, 1964, pp. 18-201				
OK	AT		Fuel Cell Systems II; American Chemical Society Symposia, September 12-14, 1967, pp. 1-80				
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OK	AB	4,035,551	7/77	Grevstad	429	44		
OK	AC	4,435,252	3/84	Kadija	204	11		
	AD	<del>4,670,702</del>	<del>6/87</del>	<del>Yamada et al.</del>	<del>320</del>	<del>21</del>		
OK	AE	4,795,683	1/89	McElroy	429	13		
OK	AF	4,973,530	11/90	Vanderborgh et al.	429	13		
OK	AG	4,973,531	11/90	Zaima et al.	429	37		
OK	AH	4,988,582	1/91	Dyer	429	30		
OK	AI	5,045,414	9/91	Bushnell et al.	429	17		
OK	AJ	5,154,985	10/92	Takechi et al.	429	23		
	AK	<del>5,346,780</del>	<del>9/94</del>	<del>Suzuki</del>	<del>429</del>	<del>42</del>		
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OK	AC	5,470,671	11/95	Fletcher et al.	429	26	
OK	AD	5,521,020	5/96	Dhar	429	142	
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	AH	5,624,769	4/97	Li et al.	429	32	
OK	AI	5,677,074	10/97	Serpico et al.	429	43	
OK	AJ	5,707,755	1/98	Grot	429	40	
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U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
OK	AA	5,726,105	3/98	Grasso et al.	442	326	
OK	AB	5,750,281	5/98	Washington et al.	429	39	
OK	AC	5,759,712	6/98	Hockaday	429	30	
OK	AD	5,763,113	6/98	Meltser et al.	429	13	
OK	AE	5,773,160	6/98	Wilkinson et al.	429	13	
OK	AF	5,776,625	7/98	Kaufman et al.	429	30	
OK	AG	5,783,325	7/98	Cabasso et al.	429	42	
OK	AH	5,789,091	8/98	Wozniczka et al.	429	12	
OK	AI	5,798,186	8/98	Fletcher et al.	429	13	
OK	AJ	5,804,326	9/98	Chow et al.	429	26	
OK	AK	6,007,933	12/99	Jones	429	38	

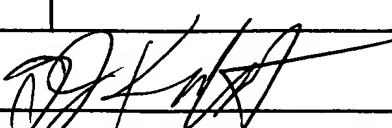
  

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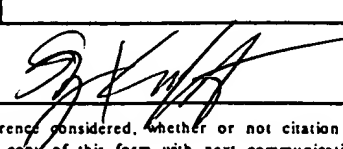
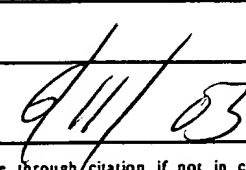
  

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. WA23-020		SERIAL NO. Yet to be assigned	
<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)					APPLICANT Fuglevand et al.			
					FILING DATE Filed herewith		GROUP	
<b>U.S. PATENT DOCUMENTS</b>								
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
OK	AA	5,858,567	1/99	Spear Jr. et al.	429	12		
OK	AB	5,863,671	1/99	Spear Jr. et al.	429	12		
OK	AC	5,863,672	1/99	Ledjeff et al.	429	26		
OK	AD	5,863,673	1/99	Campbell et al.	429	44		
OK	AE	5,869,202	2/99	Marchetti	429	30		
OK	AF	5,874,182	2/99	Wilkinson et al.	429	30		
OK	AG	5,925,322	7/99	Werth	422	170		
OK	AH	5,931,658	8/99	Sederquist et al.	431	207		
OK	AI	5,935,726	8/99	Chow et al.	429	13		
OK	AJ	5,989,741	11/99	Bloomfield et al.	429	32		
OK	AK	5,993,987	11/99	Wozniczka et al.	429	37		
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OK	AA	6,007,931	12/99 Fuller et al.	429	13		
OK	AB	6,007,932	12/99 Steyn	429	31		
OK	AC	6,015,634	1/00 Bonville Jr. et al.	429	17		
OK	AD	6,024,848	2/00 Dufner et al.	204	252		
OK	AE	6,025,084	2/00 Kawasaki et al.	429	30		
OK	AF	6,045,934	4/00 Enami et al.	429	30		
OK	AG	6,010,798	1/00 Hammerschmidt et al.	429	30		
	AH	<del>6,030,718</del>	<del>2/00 Fuglevand et al.</del>	<del>429</del>	<del>26</del>		
OK	AI	6,051,192	4/00 Maston et al.	422	110		
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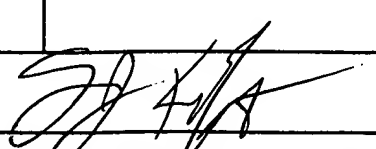
  

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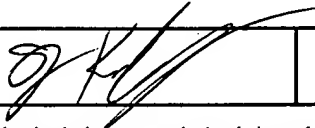
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<b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)				APPLICANT Fuglevand et al.			
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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. AVI-011	SERIAL NO. <del>09/577,407</del> 09/91691			
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT William A. Fuglevand, et al.				
				FILING DATE <del>May 17, 2000</del> 7/26/01	GROUP 1745			
U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
SK	AA	6,210,823	04/03/01	Hatoh et al.	429	30		
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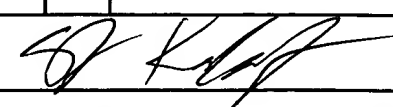
Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. WA23-020		SERIAL NO. 08/577,402 69 / 916791		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT William A. Fuglevand et al.				
				FILING DATE May 17, 2000 7/26/01		GROUP 1795		
U.S. PATENT DOCUMENTS								
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OK	AA	3,554,803	01/12/71	Poirier	136	86		
OK	AB	4,648,955	03/10/87	Maget	204	258		
OK	AC	4,769,296	09/06/88	Sterzel	429	12		
OK	AD	5,069,985	12/03/91	Cohen et al.	429	26		
OK	AE	5,190,834	03/02/93	Kendall	429	31		
OK	AF	5,686,197	11/11/97	Nishida et al.	429	30		
OK	AG	5,783,324	07/21/98	Binder et al.	429	31		
OK	AH	6,080,501	06/27/00	Kelley et al.	429	31		
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OK	AL	WO 00/26980	05/11/00	WO				
OK	AM	2 286 482	08/16/95	Great Britain				
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT William A. Fuglevand		FILING DATE <u>7/26/01</u> Filed Herewith		
				GROUP <u>1795</u>		Unknown		
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OK	AA	6,096,449	8/2000	Fuglevand et al.	429	13		
OK	AB	6,030,718	2/2000	Fuglevand et al.	429	26		
OK	AC	6,028,414	2/2000	Chouinard et al.	320	110		
OK	AD	5,916,699	6/1999	Thomas et al.	429	3		
OK	AE	5,401,589	3/1995	Palmer et al.	429	13		
OK	AF	<del>6,468,182</del> 6,468,182	<del>2/17/2000</del> 10/2002	Fuglevand et al.	429	26		
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